

LAND APPLICATION SITE

GEORGE S. BENNETT SITE

DWGSB I-5

DINWIDDIE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 10/14/14 between Barbara & George Bennett referred to here as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Dinwiddie, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>29-63</u>			
<u>29-71C</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Water treatment residuals</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Food processing waste</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Other industrial sludges</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>Barbara F. Bennett</u> <u>George S. BENNETT, Jr.</u>	<u>Barbara F. Bennett</u> <u>George S. Bennett Jr.</u>	<u>12709 Hatcher Dr</u> <u>Clarks Road VA 23833</u>	
Landowner - Printed Name, Title	Signature	Mailing Address & Phone Number	
		<u>804-265-5677</u>	

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

 Permittee - Authorized Representative Printed Name	 Signature	<u>PO Box 562 Remington, Virginia 22734</u> Mailing Address
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VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: Barbara & George Bennett

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Barbara J. Bennett
George J. Bennett
Landowner's Signature

10-14-14
Date

Richard A. Bennett
Farm Operator Signature

Phone (804) 895-2579
12805 Hatcher Drive
Church Road, VA 23033
Mailing Address & Phone Number

Landowner Coordination Form

Permittee: Recyc Systems, Inc.

Site Name: George S. Bennett

County or City: Dinwiddie County

Please Print

Signature not required on this page

[illegible]

FARM DATA SHEET

SITE NAME:	George S. Bennett	COUNTY:	Dinwiddie
OWNER:	George S. Bennett Jr.	OPERATOR:	Richard A. Bennett
OWNER'S ADDRESS:	12709 Hatcher Drive Church Road, VA 23833	OPERATOR'S ADDRESS:	12805 Hatcher Driver Church Road, VA 23833
OWNER'S TELEPHONE:	804-265-5677	OPERATOR'S TELEPHONE:	804-895-2579
GENERAL FARM TYPE:	Row Crop	CELL PHONE:	-
# CATTLE:	0	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	37.158
TOPO QUAD:	Church Road	LONGITUDE:	-77.667
COMMENTS:	METHOD OF DETERMINATION: Online Maps		
Barbara F. Bennet Deceased Sept. 2019			

NEW FIELD CHANGES

GEORGE S. BENNETT

DINWIDDIE COUNTY

NEW FIELD 1 IS OLD FIELD 2 AND PART OF OLD FIELD 1.

NEW FIELD 2 IS OLD FIELD 4 AND PART OF OLD FIELD 5.

NEW FIELD 3 IS OLD FIELD 3 AND PART OF OLD FIELD 1.

NEW FIELD 4 IS PART OF OLD FIELD 5.

NEW FIELD 5 IS OLD FIELD 6.

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
DWGSB 1	38.6	-	-	-	-	CU 26	29-63 29-71C	T 1703 F 11, 12
DWGSB 2N	27.8	-	-	-	-	CU 26	29-63	T 1703 F 3, 4, 5
DWGSB 3	51.0	-	-	-	-	CU 26	29-71C	T 1703 F 13,14, 15
DWGSB 4N	9.7	-	-	-	-	CU 26	29-71C	T 1703 F 8
DWGSB 5N	20.0	-	-	-	-	CU 26	29-71C	T 1703 F 9
TOTAL ACRES IN SITE	147.1							

3-2-21

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2020-Winter, 2022)
George S. Bennett Jr.
Planner: John Doe

Tract: 1703

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
11, 12/DWGSB 1(N)	39/39	2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		2021	...	...							
3, 4, 5/DWGSB 2(N)	28/28	2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		2021	...	...							
13, 14, 15/DWGSB 3(N)	51/51	2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		2021	...	...							
8/DWGSB 4(N)	10/10	2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		2021	...	...							
9/DWGSB 5(N)	20/20	2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
		2021	...	...							

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1703	DWGSB 1	39	[No Test]						
1703	DWGSB 2	28	[No Test]						
1703	DWGSB 3	51	[No Test]						
1703	DWGSB 4	10	[No Test]						
1703	DWGSB 5	20	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1703	1703/11, 12	DWGSB 1	39	Appling	IVa	II	III	III	
	1703/3, 4, 5	DWGSB 2	28	Appling	IVa	II	III	III	
	1703/13, 14,	DWGSB 3	51	Appling	IVa	II	III	III	
	1703/8	DWGSB 4	10	Appling	IVa	II	III	III	
	1703/9	DWGSB 5	20	Appling	IVa	II	III	III	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Fall, 2020 - Winter, 2022**

Farm Name: **George S. Bennett Jr.**

Location: Dinwiddie

Specialist: John Doe

N-based Acres: 147.1

P-based Acres: 0.0

Tract Name: **1703**

FSA Number: 1703

Location: Dinwiddie

Field Name: **DWGSB 1**

Total Acres: 38.60 Usable Acres: 38.60

FSA Number: 11, 12

Tract: 1703

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
98	2B	Appling
2	2C	Appling

Field Warnings:

Field Name: DWGSB 2

Total Acres: 27.80 Usable Acres: 27.80

FSA Number: 3, 4, 5

Tract: 1703

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
97	2B	Appling
3	W	Water

Field Warnings:

Field Name: DWGSB 3

Total Acres: 51.00 Usable Acres: 51.00

FSA Number: 13, 14, 15

Tract: 1703

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	2B Appling	

Field Warnings:

Field Name: DWGSB 4

Total Acres: 9.70 Usable Acres: 9.70

FSA Number: 8

Tract: 1703

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	2B Appling	

Field Warnings:

Field Name: DWGSB 5

Total Acres: 20.00 Usable Acres: 20.00

FSA Number: 9

Tract: 1703

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

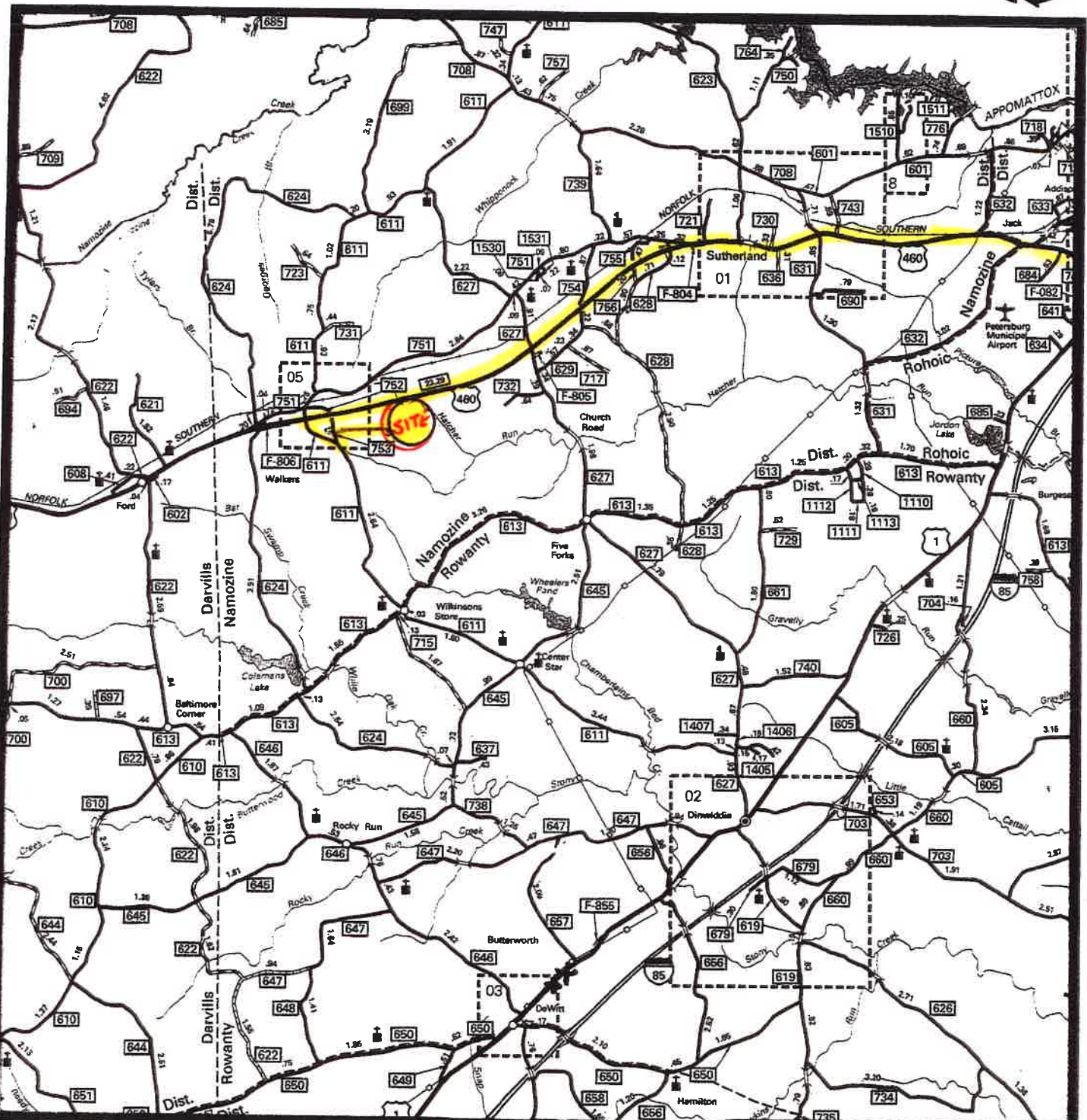
PERCENT	SYMBOL	SOIL SERIES
100	2B	Appling

Field Warnings:

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2 miles

DWGSB 1-5

10-1-2020

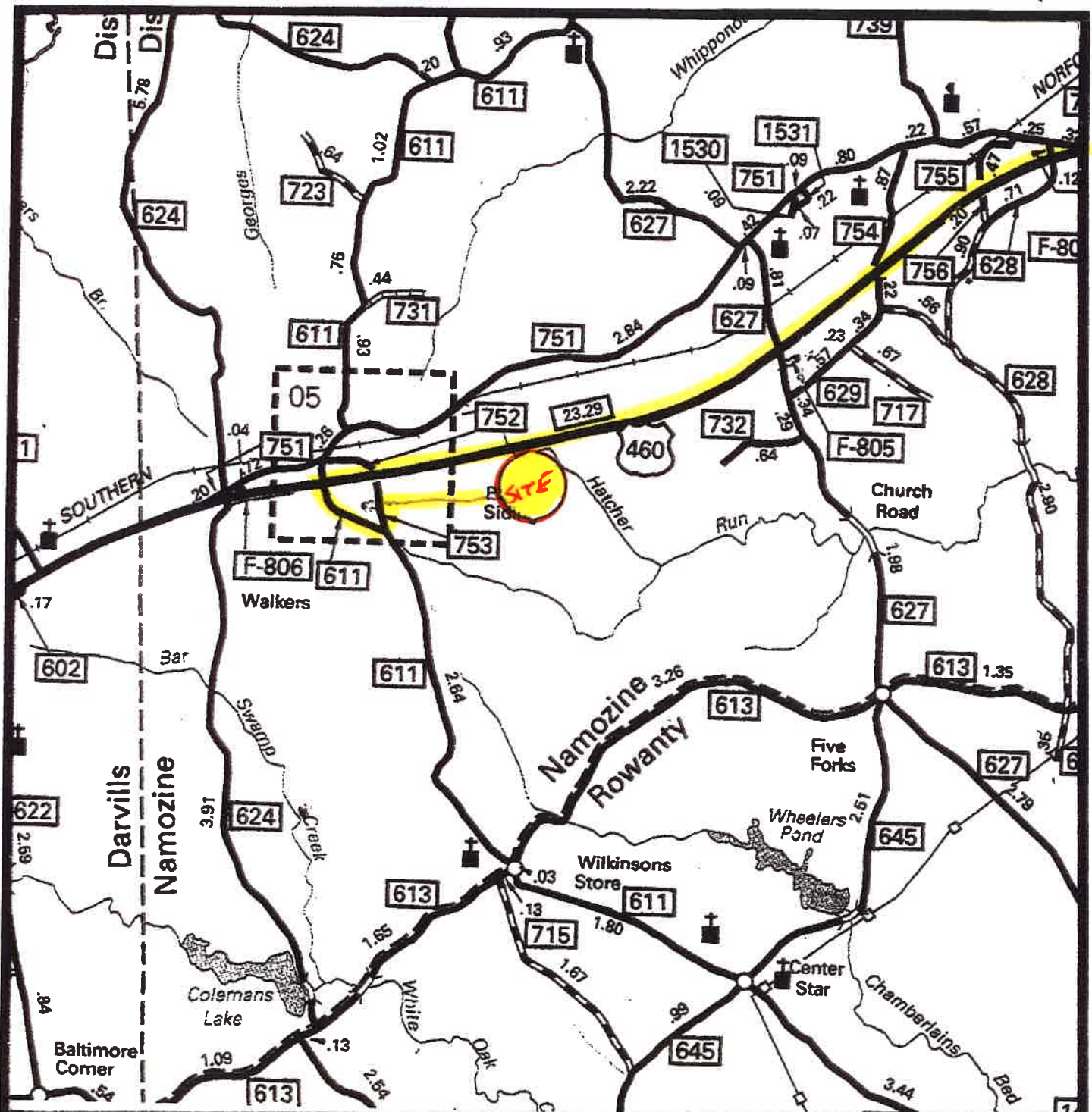
Truck
Route

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

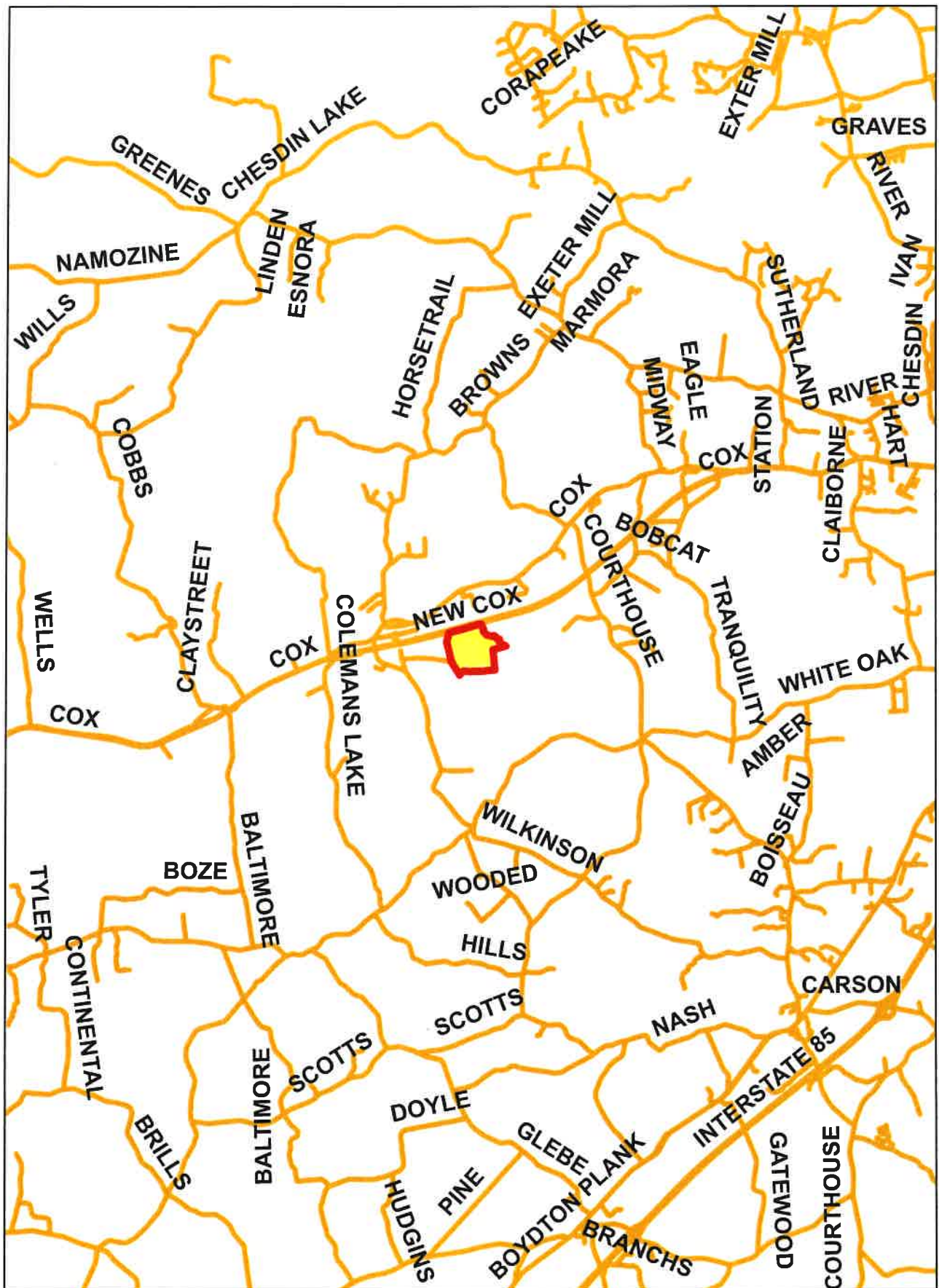
DWGSB 1-5

10-1-2020

Truck
Route

VICINITY MAP

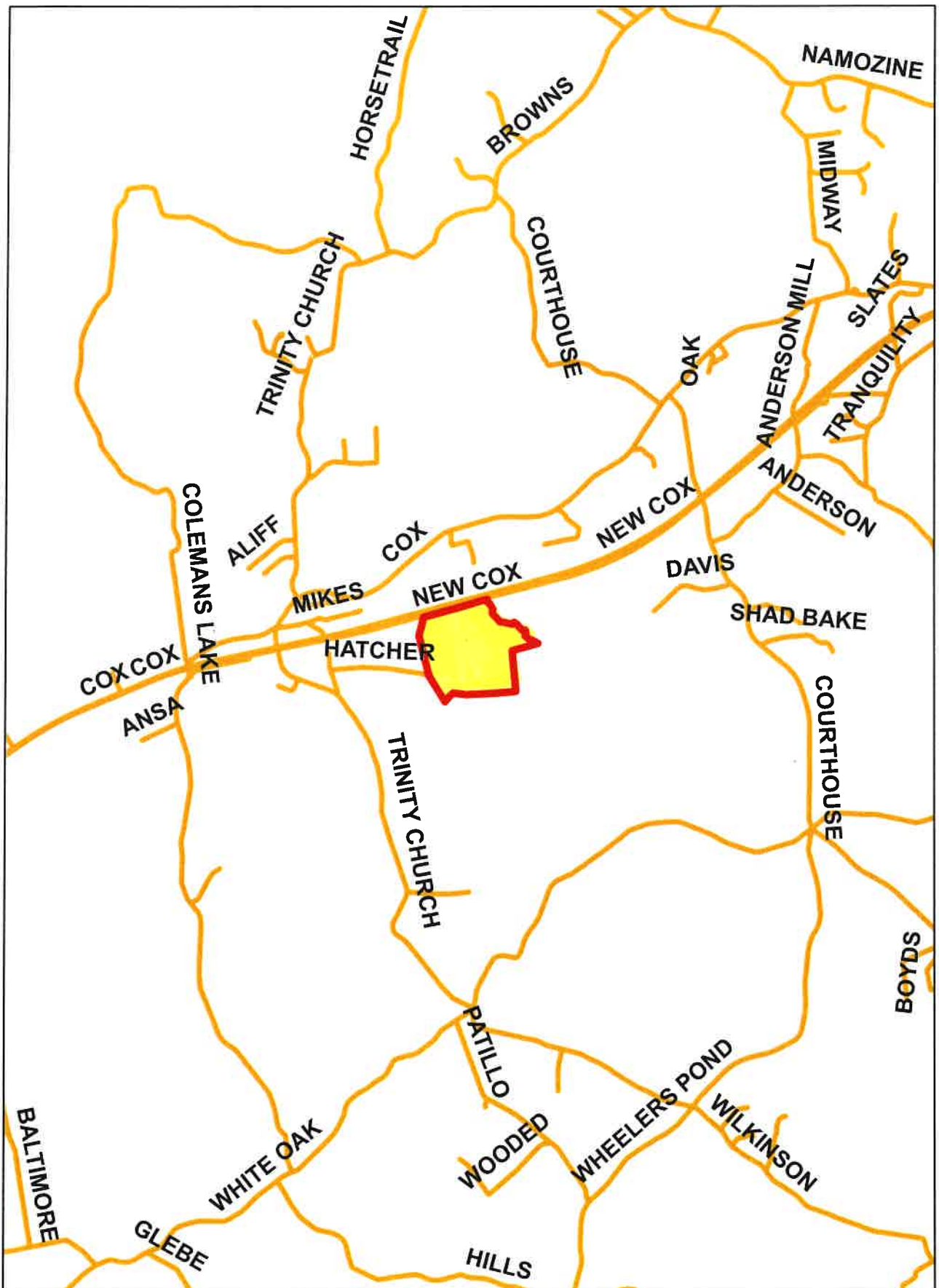




0202-1-01

Vicinity Map

1 in = 2 miles



0202-1-01

Vicinity Map

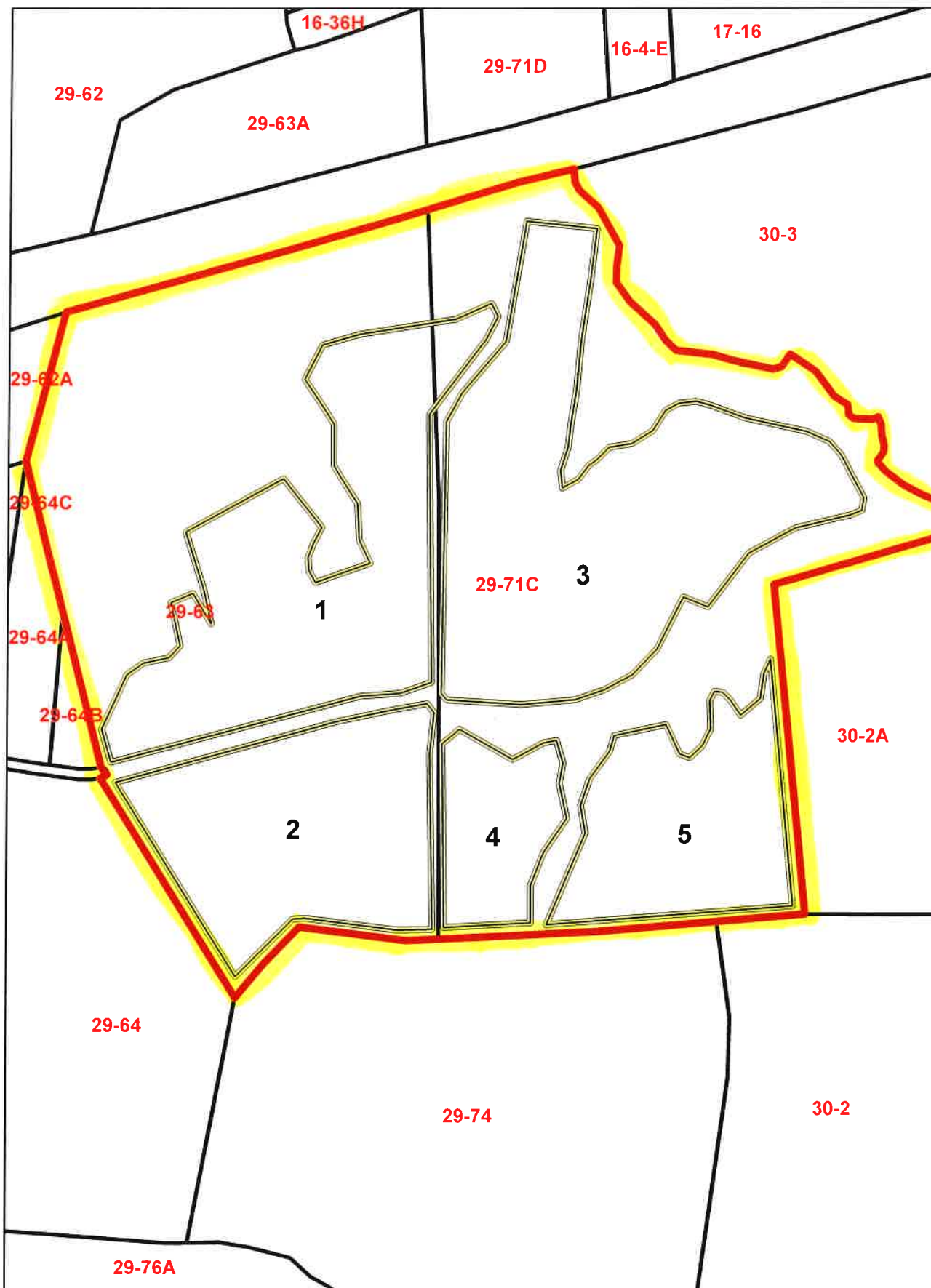
1 in = 1 miles



Recyc Systems
Inc.

George S. Bennett

DWGSB



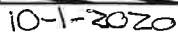
10-1-2020

Tax Map

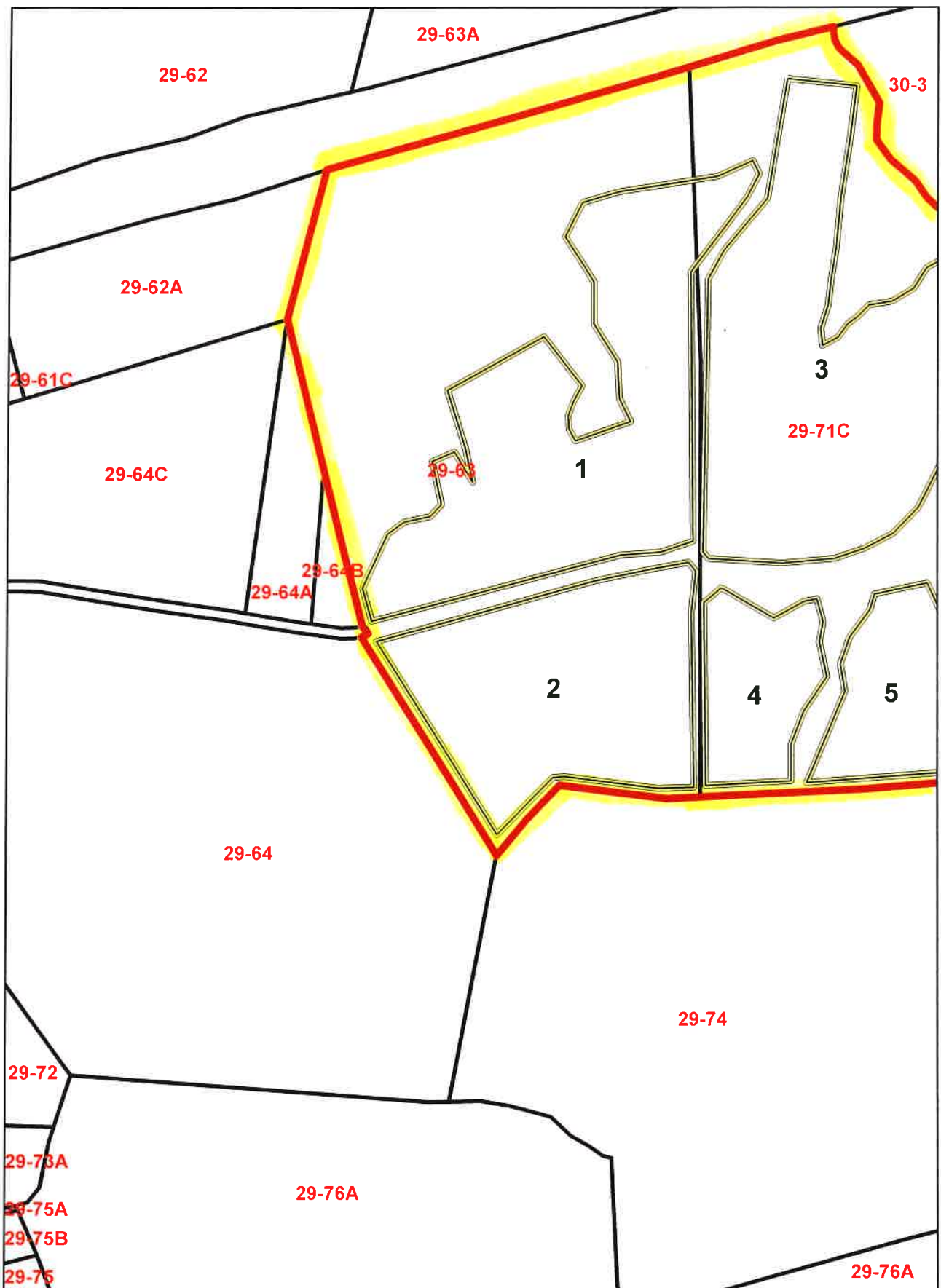
1 in = 660 feet



DWGSB



1 in = 660 feet



10-1-2020

Tax Map

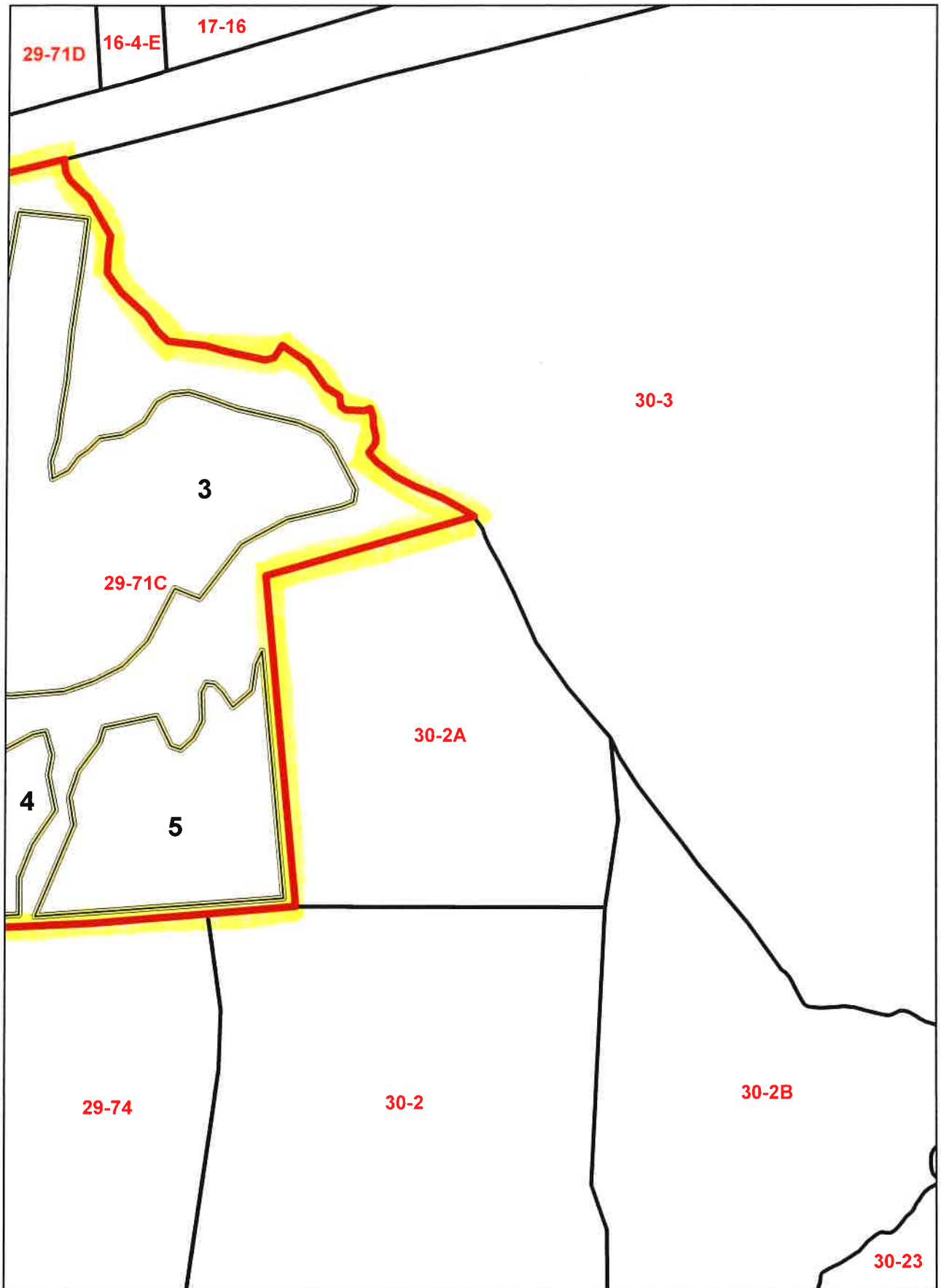
1 in = 660 feet



Recyc Systems
Inc.

George S. Bennett

DWGSB



0-1-2020

Tax Map

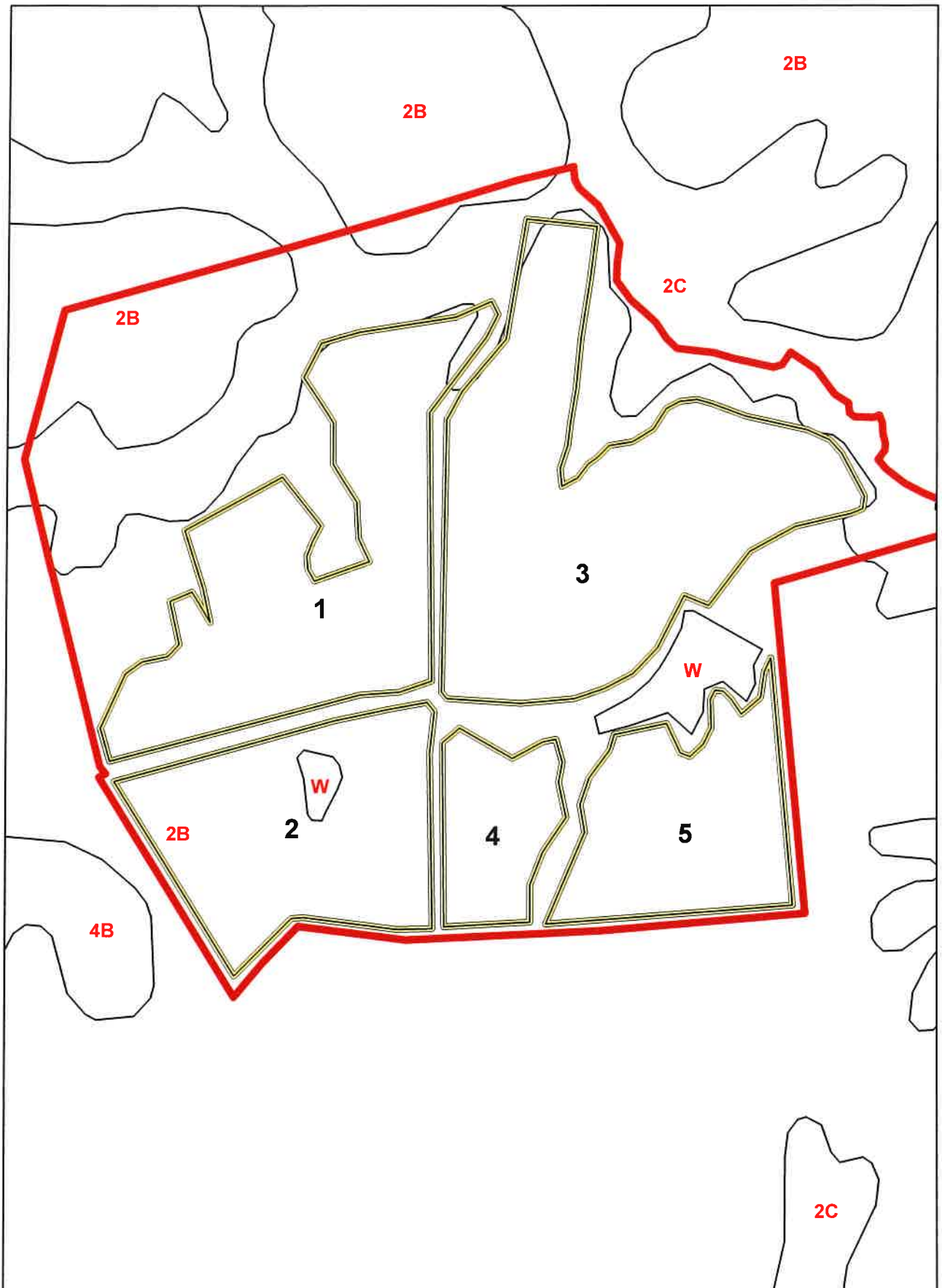
1 in = 660 feet

ADJOINING LANDOWNERS

George S. Bennett

Dinwiddie County

Tax Map	Parcel #	Owner Name(s)
29	62	David R. Jr. B. Brenda H. Reese
	62A	Juanita H. Turner
	63A	Betty J. Waselchalk
	64	Barry S. Tucker
	64A	Lynette M. Dooley
	64B	Lynette M. Dooley
	64C	Richard M. Williams
	71D	Betty J. Waselchalk
	74	Barry L. Tucker
30	2	Tiaa Timberlands 1 LLC C/O Greenwood Resources Inc.
	3	Tiaa Timberlands 1 LLC C/O Greenwood Resources Inc.



10-1-2020
Frequently
Flooded

Soil Map

1 in = 660 feet



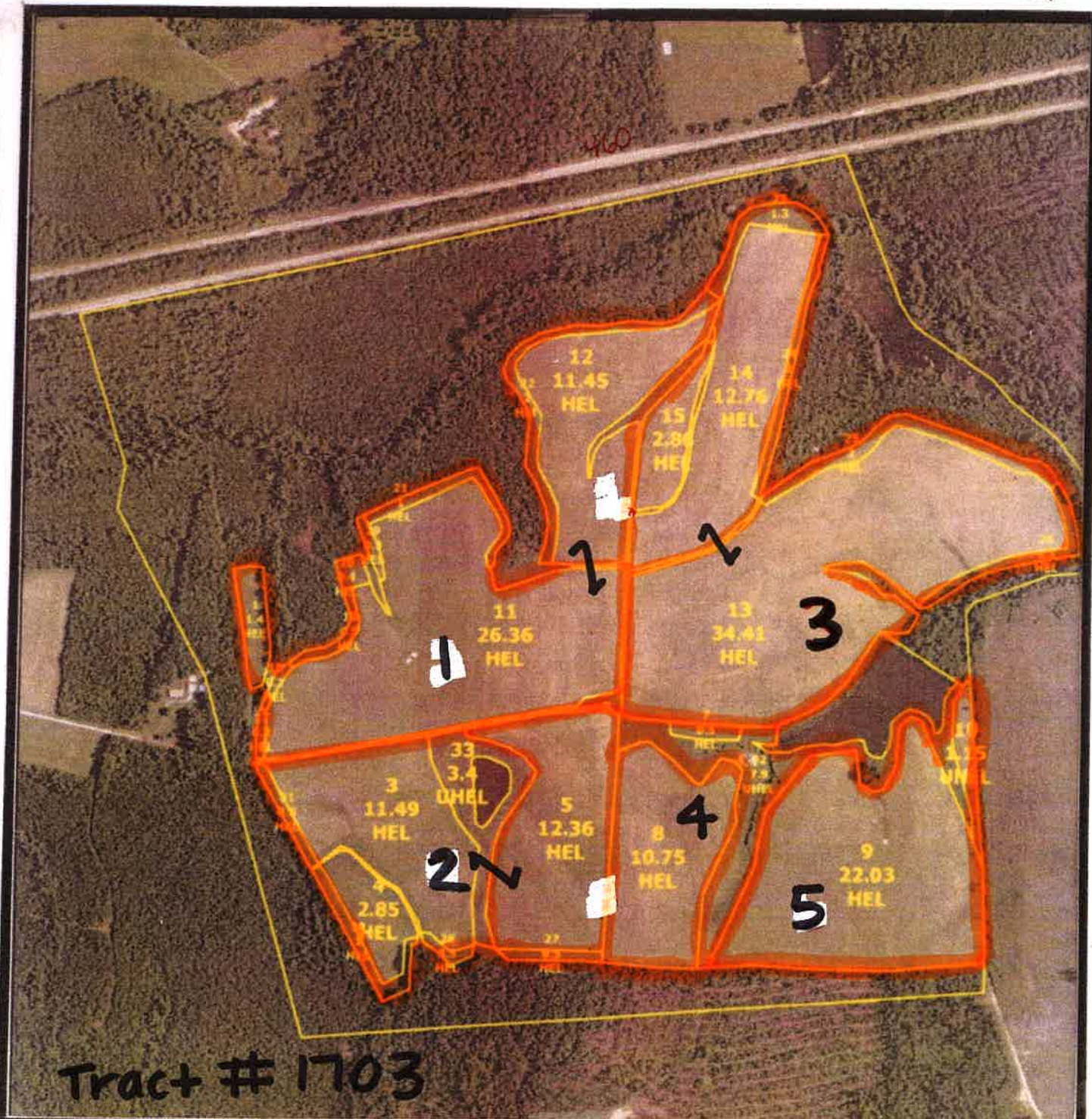
Field Id	Gross Acres
DWGSB 1	38.6
DWGSB 2	27.8
DWGSB 3	51.0
DWGSB 4	9.7
DWGSB 5	20.0
TOTAL	147.1



10-1-2020

Aerial Map

1 in = 660 feet



Scale: 1 inch = 660 feet


















DWGSB 1-5

10-1-20

AERIAL MAP



Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

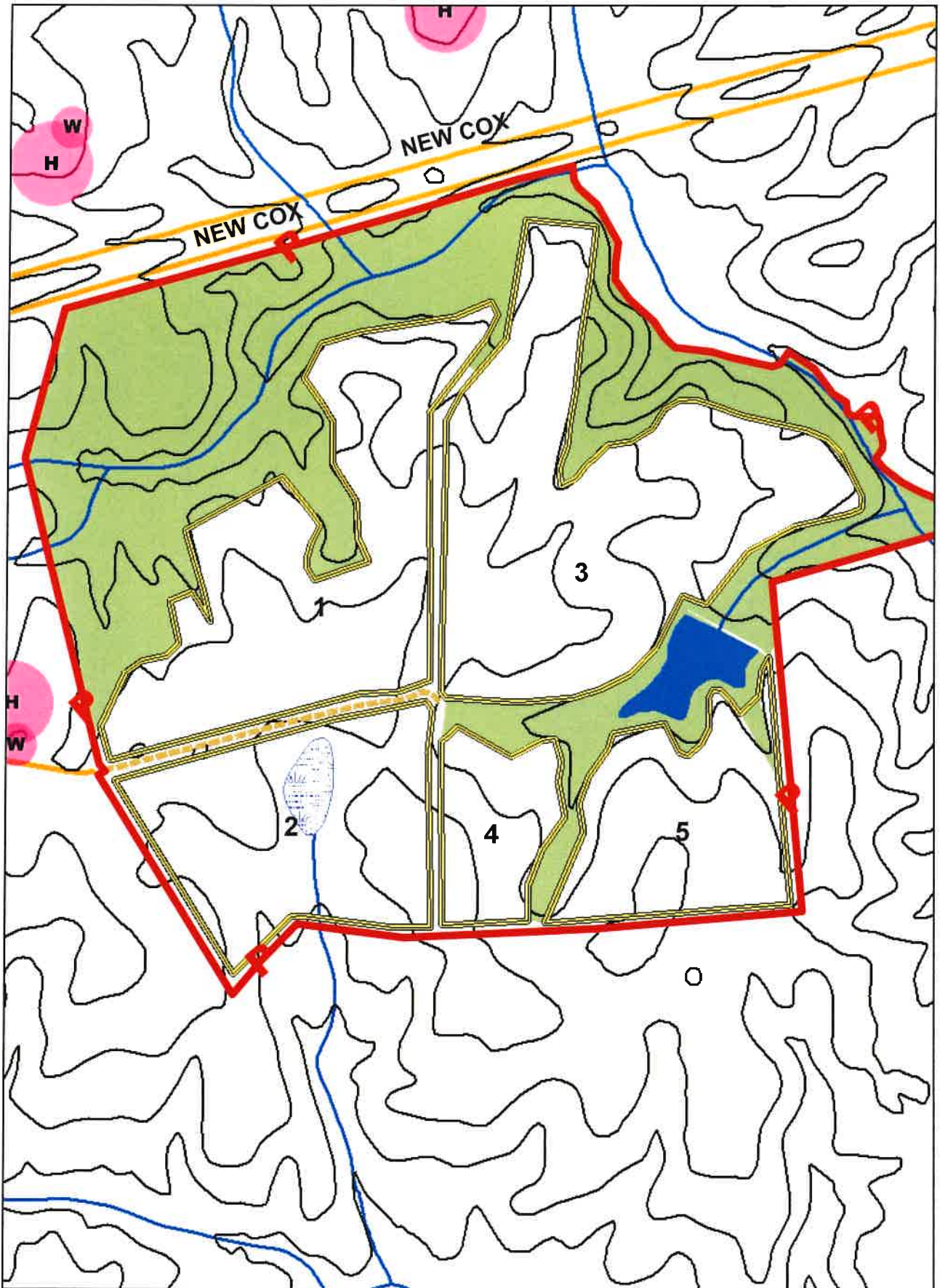
*Buffer can be reduced or waived upon written consent from landowner.



Recyc Systems
Inc.

George S. Bennett

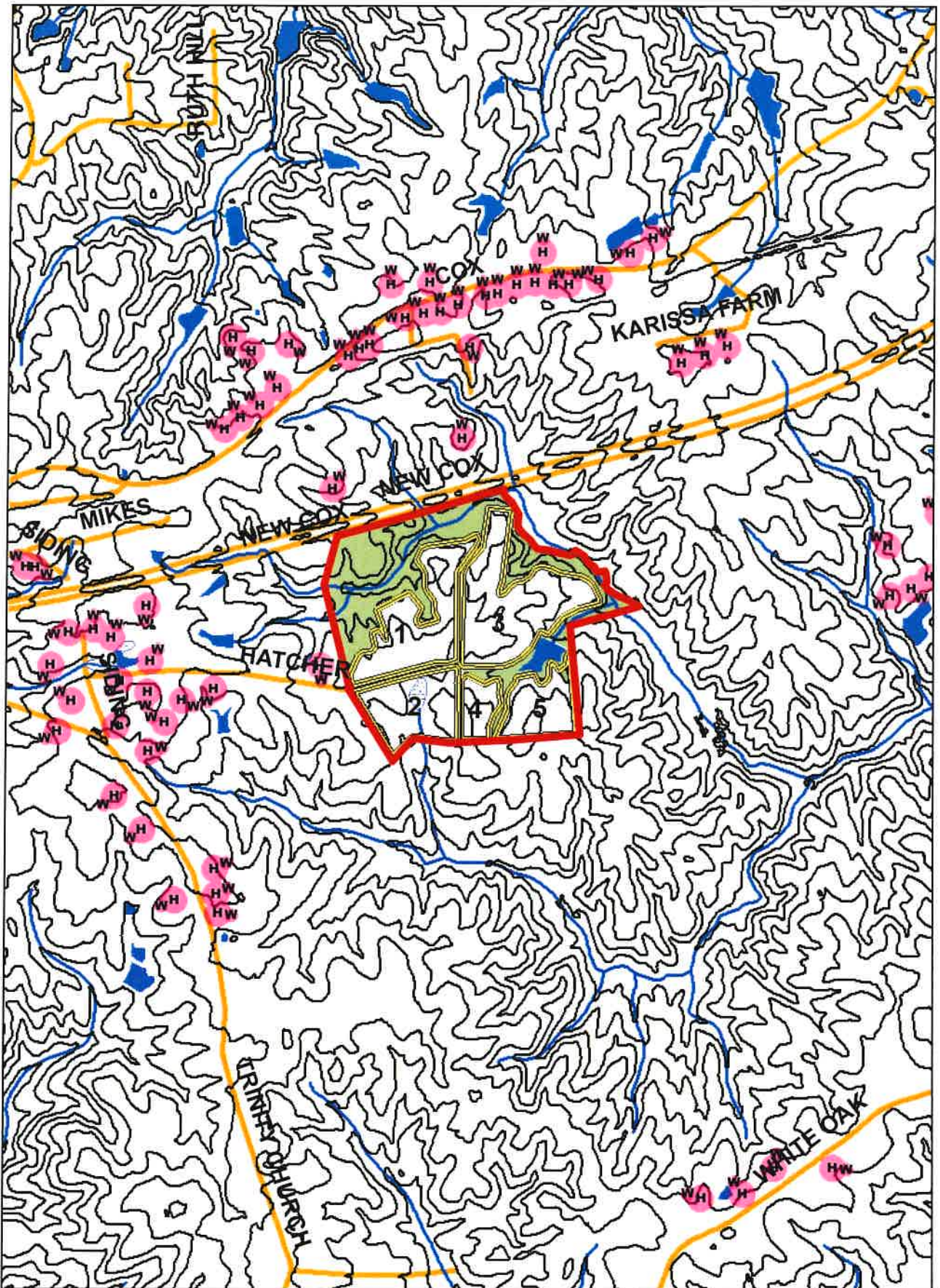
DWGSB



02-02-1-01

Site Plan

1 in = 660 feet



0202-1-01

Topographic Map

1 in = 2,000 feet